



FIG. 1A

10 30 50
CTGCACGAGGACAGATTATCAAGCTCCTCAGTCAACAACACATCACCGAAGAA
70 90 110
CATGGAAGGAAAGGAATTTTAAAGGAAATACCAATCTCTGTGTGCAACAAGCCCTTGAT
130 150 170
ATTCAATGTTTGCACCAATCTACTGTGAGATTTATGAAGAAAAACAATTTGCCGACAATC
190 210 230
TCTATGTACACTTACAAATGCCCTCAGTTGATGCTTGTGGGCTGTTTGTACGCGTTCTGTG
250 270 290
ATAATGAACACATGGACTTCTGTATTAAATTCAGTTGACCCCTTTAGCCAATTGCCAG
310 330 350
GAGCCCTGGATTTTACTTCCAACTGCTGATATCTGTGTAAAAATTGATCTACATCCACCC
370 390 410
TTTAAAGCATTTGATGAATTAATTAGAACTTTAGACACAAGAAAAATTGAAAAGAAATC
430 450 470
TCAGTAAAGCGAATTCGATGTTCAAAACAACAACTACAAGAGACAAAGACTTCTCTGTTTA
490 510 530
CTTTCTAAGAACTAATAATTTGCTACCTTAAAAAGGAAAAAATGAACAGCACATGTATT
M N S T C I
550 570 590
GAAGAACAGCATGACCTGGATCACTATTGTTTCCCATTTGTTTACATCTTTGTGATTATA
E E Q H D L D H Y L F P I V Y I F V I I
610 630 650
GTCAGCATTCAGCCAAATATTGGATCTCTGTGTGTGCTTTCTCTGCAACCCCAAGAGAA
V S I P A N I G S L C V S F L Q P K K E
670 690 710
AGTGAAC TAGGAATTTACCTCTTCAGTTTGTCACTATCAGATTACTCTATGCATTAACT

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FIG. 1B

S E L G I Y L F S L S L S D L L Y A L T
730 750 770
CTCCCTTTATGGATTGATTACTTGGATAAAGACAACACTGGACTTCTCTCTCCTGCCTTG
L P L W I D Y T W N K D N W T F S P A L
790 810 830
TGCAAAGGGAGTGCTTTTCTCATGTACATGAAGTTTACAGCAGCAGCAGCATTCCTCACC
C K G S A F L M Y M K F Y S S T A F L T
850 870 890
TGCATTGCCCGTTGATCGGTATTTGGCTGTGTCTACCCCTTTGAAAGTTTTCCTTAAGG
C I A V D R Y L A V V Y P L K F F L R
910 930 950
ACAAGAAGAAATTGCACATCATGGTCAGCCCTGTCCATCTCGATATTTGGAACCATCTTCAAT
T R R I A L M V S L S I W I L E T I F N
970 990 1010
GCTGTCAATGTTGTGGGAAGATGAACAGTTGTTGAATATTTGCGATGCCGAAAGTCTAAT
A V M L W E D E T V V E Y C D A E K S N
1030 1050 1070
TTTACTTTATGCTATGACAAATACCCCTTTAGAGAAATGGCAAATCAACCTCAACTTGTTTC
F T L C Y D K Y P L E K W Q I N L N L F
1090 1110 1130
AGGACGTGTACAGGCTATGCAATACCTTTGGTCACCATCCTGATCTGTAAACCGGAAAGTC
R T C T G Y A I P L V T I L I C N R K V
1150 1170 1190
TACCAAGCTGTGGGCACAATAAAGCCACGGAACAGAAAGAAAGAGAAATCATATAAA
Y Q A V R R H N K A T E N K E K R I I K
1210 1230 1250

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FIG. 1C

CTACTTGTGAGCATCACAGTTACTTTTGTCTTATGCTTTACTCCCTTTCATGTGATGTTG
L L V S I T V T F V L C F T P F H V M L
1270 1290 1310
CTGATTCGCTGCATTTTAGAGCATGCTGTGAACCTCGAAGACCACAGCAATTCTGGGAAG
L I R C I L E H A V N F E D H S N S G K
1330 1350 1370
CGAACTTACACAATGTATAGAATCACGGTTGCAATTAACAAGTTTAAATTGTGTTGCTGAT
R T Y T M Y R I T V A L T S L N C V A D
1390 1410 1430
CCAATTCTGTACTGTTTGTGTTACCGAAACAGGAAGATATGATGTGGAATATATAAA
P I L Y C F V T E T G R Y D M W N I L K
1450 1470 1490
TTCTGCACTGGGAGGTGTAATACATCACAAAGACAAAGAAACGCATACTTTCTGTGCT
F C T G R C N T S Q R Q R K R I L S V S
1510 1530 1550
ACAAAAGATACTATGGAATTAGAGGTCCTTGAGTAGAACCAAGGATGTTTGAAGGAAG
T K D T M E L E V L E *
1570 1590 1610
GGAAGTTTAAGTTATGCATTATATATCATCATCAAGATTACATTTTGAAGAAATCTAGC
1630 1650 1670
ATGTGAGGGGACTAAGTGTTCTCAGAGTGATGTTTAAATCCAGTCCCAATAAATATCTT
1690 1710 1730
AAAAGTGCATTGTACAGCTCCCTCCCTGCGTTTATTAAATGATGTATATTAACAAAGA
1750
TCAATATTTTCTT

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4 TCIEEQHDL DHYLFPIVYIFV IIVSIPAN..IGSLCVSFLQPKKESELGI 51
5 DSSHMDSEFRYTLFPPIVYSII FVLGVIANGVVLWVFARLYPCKKFNEIKI 54
52 YLFSLSLDLLYALTPLWIDYTNKDNWTFSPALCKGSAFLMYMKFFYSS 101
55 FMVNLTMA DMLFLITLPLWIVYQNGNWILPKFLCNVAGCLFFINTYCS 104
102 TAFLT CIAVD RYLAVVYPLKFFFLRTRRIALMVSLSIWILETIFNAVMLW 151
105 VAF LGVITYNRFQAVTRPIKTAQANTRKRGISLSLVIWVAIVGAASYFLI 154
152 EDET VVEYCD AEKS NF TLCYDKYPLEKWQINLNLFR TCTGYA IPLVTILI 201
155 LDSTNTVPDSAGSGNVTRCFEHEYEGKGV PVLIIHIFIVFSFFLVFLIILF 204
202 CNRK VY...QAVRH NKATENKEKKRI IKLLVSITVTFVLCFTPFHVML 246
205 CNLV IIRTL LMQP VQQORNAEVTG..RALWMVCTVLAVFIICFVPHHVQ 252
247 LIRC ILEHAVNFEDHSNGKRTYTM YRITVALTSLNCVADPILYCFVTET 296
253 LPWT LAE..LGFQD.SKFHQAINDAHQVTLCLLSTNCVLDPVIYCFLTCK 299
297 GRYDMWNILKFCTGRCNTSQ RKRILSVSTKDTMELEVLE 337
300 FRKHL..TEKFYSMRSS.....RKCSRATTDVTVEVVVP 331

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FIG. 2